Laser Safety Information

This drive employs a laser. Do not remove the cover or attempt to service this device when connected due to the possibility of eye damage.

Caution

The use of controls, adjustments or performance of procedures other than those specified here may result in hazardous radiation exposure.

Laser Specification

Semiconductor Laser:

121mW, 780-788nm; 109mW, 652-663nm

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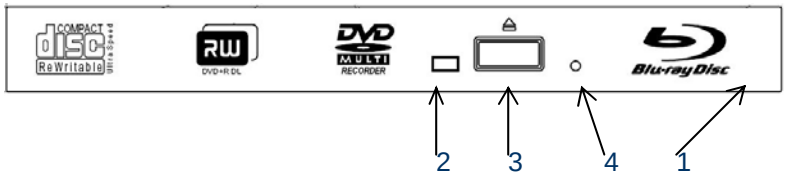
Disposal of Old Electrical & Electronic Equipment

(Applicable in the EU and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product

Part Names and Functions



1. Front Panel

This panel prevents dust from entering the Optiarc Writer and opens automatically when the Load/Eject button is pushed.

2. Busy Indicator

This indicator lights during data read and write operation.

3. Load/Eject Button

This button is pressed to eject or retract the disc tray when the power is on.

4. Emergency Eject Hole

Use to remove the disc from the DVD Writer if the electrical eject is disabled by software or if power failure occurs.

(see „Emergency Eject" for details)

Installation & Configuration

The drive configures itself independently through the connector.

Note: Not all computer hardware supports the intended automatic configuration. If the device is not supported the computer may not boot up normally. In such case the drive's firmware must by changed by qualified personnel. Or you may have to update your chipset drivers/firmware.

Installing in a host computer

Please note that this drive is designed for usage in portable computer. Thus it has standardized dimensions and connector. If the slimline drive is not targeted for a standard S-ATA slimline system, additional adapters must be procured from an appropriate expert trader.

1. Turn off the computer, other peripherals and unplug all the cords and cables. Then remove the computer cover, face plate, mounting clips, and keeper bracket. Refer to the operation guide that came with your computer for help with this step.

2. Slide the slimline BD writer into the computer in such a way that you are able to connect the intended plug.

3. Connect the intended plug with the socket on the back of the slimline Drive.

4. Slide the Drive into the computer and fix it in the computer cabinet with appropriate screws. To avoid damage to the drive make sure screws do not go beyond 1.5 mm into the Optiarc Writer's cabinet.

5. Reassemble the computer and close the housing cover. Refer to the operation guide that came with the computer for help with this step.

Driver Installation

When you boot your computer after mounting the drive, the software installation starts by activating the reading function of the drive (CD-ROM). If you are using the Slimline drive with Windows 95/98/ME/ NT/ 2000/ XP/ Vista/ Win 7 or IBM OS/2 Warp/Mac OS and various Linux distributions, all necessary drivers will be loaded automatically by the operating system.

Drivers mentioned above are part of the Operating Systems and are not available from Sony Optiarc.

Software Installation

With the reading function available, the next step will be to install a writing and Blu-ray Disc /DVD Playback software (to be acquired separately). Please insert your software CD/DVD-ROM into the BD Drive and follow instructions provided by the software developers. If the installation does not start automatically you have to activate the software installation manually.

Drive usage

Inserting a Disc

1. Press the Eject button. The disc tray will be ejected by about 10mm.

2. Pull the disc tray all the way open by hand.

3. Set the disc into the shaft in the centre of the tray with the label side facing up.

4. Gently push the disc tray into the drive.

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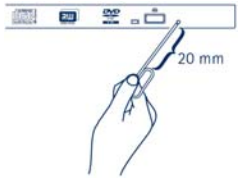
Emergency Eject

The procedure described below can be used to open the tray of the Optiarc Writer if the EJECT button is disabled by software or when power failure occurs.

1. Turn off your PC.

2. If a disc inside still is spinning wait until it stops.



3. Carefully insert a straightened paper clip (about 0.8 mm in diameter) into the hole, and push firmly until the tray opens.

Notes on discs

1. To keep a disc clean, do not touch its surface. Handle the disc by its edge.

2. Keep discs in their cases or disc magazines when not in use.

4. Do not use discs with labels or stickers.

5. Discs with non-standard shapes (e.g. heart, square, star) cannot be played on this unit. Attempting to do so may damage the drive.

Precautions on Writing/Playing Discs

Write speed and compatible discs

When writing data to disc at high speeds, you must use the appropriate type of disc.

Configure the writing speed through your writing software. For details about the setting procedures, refer to your writing software documentation.

When writing data to disc, the drive may adjust the writing speed to the quality of the disc in the drive.

Depending on the transfer rate, there may also be limitations on writing speeds.

BD/DVD Region Code

The playback of BD/DVD-Video (BD/DVD discs) is protected and controlled by a region code setting. For the drive to play back BD/DVD-Video, the region code on the BD/DVD disc, the region code of the drive, and the region code of the BD/DVD-Video software must all match. The region code can be set up to five times, including the initial assignment. After setting the region code five times, the setting becomes permanent and can no longer be changed. From this point on, you are only able to play back DVD-Video whose region code matches the one set the fifth time. Do not attempt to make unauthorized changes to the region code. Any problems resulting from doing so are not covered by the warranty.

BD: You can change the region code on its BD-Video software.

DVD: You can change the region code of the drive on its properties dialog box accessible from the Device.

Precautions when playing back DVD-Video

DVD-Video disc playback conditions are sometimes determined by software manufacturers. Because the drive plays back discs as determined by software manufacturers, some drive functions may not always perform as expected. When playing back DVD-Video, refer to the documentation accompanying each disc.

DVD copy protection technology

Most DVD-Video discs on the market are protected against unauthorized copy. Attempting to copy protected discs violates copyright laws.

Copy controlled CDs

This product is designed to play back discs conforming to the compact disc (CD) standard. Audio CDs encoded with copyright protection technology are now marketed by various record companies. Be aware that some of these discs do not conform to the CD standard and you may not be able to play them back with the drive. When using the drive as an audio CD player, only use audio CDs with the following mark. Some of these discs are encoded in such a way as to prevent sampling and/or copy, while others can only be played back under certain conditions. For details, refer to the documentation of your audio CD.

About BDAV/BDMV format Playback Compatibility

Video recorded in BDAV/BDMV format can only be played back on Consumer BD players or BD player software which support BD-R/RE playback feature.

AACS Key Update

Advanced Access Content System (AACS) is an industry requirement designed to protect Blu-ray Disc® contents. Some BD movies may not playback if the AACS key is missing. Blu-ray software manufacturers normally release updates/patches with the current keys necessary to play back Blu-ray movies.

Please Record Responsibly

Before copying anything onto a disc, please be sure that you are not violating copyright laws. Check your software's license agreement for details.

Blu-ray Disc is a trademark of the Blu-ray Disc Association.

Pentium is a registered trademark of Intel Corporation.

Microsoft, MS, Windows and Windows Vista are registered trademarks of Microsoft Corporation.

Other system and product names used herein are registered trademarks or trademarks of their respective manufacturers, although the ™ and ® marks are not used in the text.

Support

For further information, various download files and hotline support please visit our Website:

http://www.sony-optiarc.eu

Data Section

Transfer Rate	READ	BD Single Layer	10.8-27 Mbytes/sec (2.4x-6x CAV)
		BD Dual layer	10.8-27 Mbytes/sec (2.4x-6x CAV)
		BD-R TL	9-18 Mbytes/sec (2x-4x ZCLV)
		BD-R QL	9-18 Mbytes/sec (2x-4x ZCLV)
		With AACS	9 Mbytes/sec (2x CLV)
		DVD-ROM /-R/+R	4.5-11 Mbytes/sec (3.3-8x CAV)
		DVD-R DL/+R9	3.4-8.3 Mbytes/sec (2.5-6x CAV)
		DVD-RW/+RW	4.5-11 Mbytes/sec (3.3-8x CAV)
		DVD-RAM	4.1-6.9 Mbytes/sec (3-5x ZCLV)
		CD-ROM, CD-R	1500 - 3600 kBytes/sec (10-24x CAV)
		CD-RW	1500 - 3600 kBytes/sec (10-24x CAV)
		CD-DAE	1500 - 3600 kBytes/sec (10-24x CAV)
	WRITE		
		DVD+R	4.5-11 MBytes/sec (8x)
		supported speeds	8x/6x/4x/2.4x
		DVD+R DL	3.3 - 8.3 Mbytes/sec (6x)
		supported speeds	4x/2.4x/ 6x
		DVD+RW	3.3- 11 MBytes/sec (8x)
		supported speeds	8x/6x/4x/2.4x
		DVD-R	4.5-11 Mbytes/sec (8x)
		supported speeds	8x/6x/4x/2x
		DVD-R DL	3.3 - 8.3 Mbytes/sec (6x)
		supported speeds	4x/2x/6
		DVD-RW	2.7-8.3 Mbytes/sec (6x)
		supported speeds	6x/4x/2x/1x
		DVD-RAM(Vers. 2)	4.1-6.9 MBytes/sec (5x)
		supported speeds	5x/3x/2x
		CD-R	1200-3600 KBytes/sec (24x)
		supported speeds	24x/16x/8x/4x
		CD-RW	1200-2400 kBytes/sec (16x)
		supported speeds	16x/10x/8x/4x
Write methods		DAO (disc at once), SAO (session at once), TAO (track at once) with zero gap, variable or fixed packet, multisession	
Access Time		BD Medium (Random seek)	230 msec (Typical)
		DVD Medium (Random seek)	180 msec (Typical)
		CD Medium (Random seek)	190 msec (Typical)
Compatibility		BD-ROM, BD-ROM-DL, BD-R, BD-R DL, BD-R TL, BD-R QL, BD-RE, BD-RE DL, BD-RE TL, DVD-ROM, DVD+R, DVD+R DL, DVD-R, DVD-R DL, DVD+RW, DVD-RW, DVD-RAM(Ver.2), CD-Audio, CD-ROM(mode 1 and mode 2), CD-ROM XA(mode 2, form 1 and form 2), Photo CD(single and multiple sessions), CD Extra, CD-R, CD-RW, and CD-TEXT discs.	
In compliance with		MultiRead, PC-2001, MS Vista, Win 7	

General

Memory Buffer	5.8MBytes
Interface	Serial ATA , max. 1.5
Voltage tolerance	+5V (DC) +/- 5 %
Dimensions (W x H x D)	128 x 12.7 x 126.1 mm without Bezel
Weight	170g without BEZEL
Noise	47.5 dB(A) max.
Temperature (Non-condensing)	–40°C to +65°C (non operating), 5°C to +50°C (operating)
Humidity	5% to 95% (non operating), 20% to 80% (operating)

Above specifications are subject to change.